27. The method of claim 26 wherein the second set of operation tasks is visible to each of a plurality of operations upon the linked data structure.

28. A system for executing an operation upon a linked data structure having at least one element, the system comprising:

(a) a memory for storing the linked data structure;

(b) a processor coupled to the memory, the processor operable to perform a first set of operation tasks in a first phase, the first set of operation tasks operable to effect a first set of element state transitions, to develop a second set of operation tasks, the second set of operation tasks operable to effect a second set of element state transitions, the second set of element state transitions being distinct from the first set of element state transitions, and to perform the second set of operation tasks in a second phase.

29. A system for executing an operation upon a linked data structure having at least one element, the system comprising:

(a) a memory for storing the linked data structure;

(b) a processor coupled to the memory and operable to divide the operation into first and second distinct sets of operation tasks, perform the first set of operation tasks in a first phase, and perform the second set of operation tasks in a second phase.

30. A computer readable medium for executing an operation upon a linked data structure having at least one element, the computer readable medium comprising:

(a) a code segment for performing a first set of operation tasks in a first phase, the first set of operation tasks operable to effect a first set of element state transitions;

(b) a code segment for developing a second set of operation tasks, the second set of operation tasks operable to effect a second set of element state transitions, the second set of element state transitions being distinct from the first set of element state transitions;

(c) a code segment for performing the second set of operation tasks in a second phase.